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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0250005
TaskID: 4509
Mine Name: COAL HOLLOW
Title: ADDITION OF SOIL ANALYSIS

Operation Plan

Topsoil and Subsoil

Analysis:

Appendix 2-2 Soil Analysis has been updated with topsoil analysis from Pits 8, 9, 27 and 28. Topsoil from Pits 8 & 9 was placed in topsoil pile #4. Topsoil from pits 27 & 28 was live hauled to the reclamation in Section 19 SW 1/4, just west of pit 6. The stockpiled topsoil was clay loam in texture, high in organic matter (3.2%) with a low SAR (0.15) and pH of 7.6. There is no indication of volumes added to topsoil pile #4.

The live-hauled topsoil was clay and clay loam in texture, with a pH of approximately 7.8, and SAR values were 1.36 (clay) and 0.86 (clay loam). The topsoil has a high level of organic matter (2.8% in the clay and 3.5% in the clay loam), but nitrogen was more available in the clay (1.2 ppm NO3-N) than in the clay loam (< 0.1 ppm NO3-N). Phosphorous values were in the 6 ppm range. Potassium values were in the 270 - 300 range. This soil was hauled in the fall of 2013 and fertilized with Nutrimulch (a turkey manure (1%N:1%P:1%K) at 3,000 lbs/acre (personal communication from Kirk Nicoles, 2/12/2014).

pburton